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Attorney Docket No. 1567.1015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Duck Chul HWANG et al.

Application No.: 09/910,952

Group Art Unit: 1745

Filed: July 24, 2001

Examiner: Laura S. Weiner

For: ELECTROLYTE FOR A LITHIUM-SULFUR BATTERY AND A LITHIUM-SULFUR

BATTERY USING THE SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1.	E	nclosures	accompanying this Information Disclosure Statement are:
		1a. ⊠ 1b. ⊠	Form PTO-1449. Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications.
•		1c. 🛚	English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
		1d. 🛚	English language translation (Abstract Only) attached to non-English language publications as indicated on the attached Form PTO-1449.
		1e. 🗌	Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.
		1f.	List of Copending Applications (ATTACHMENT 1(f), hereto). List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).
2.		This Infor	mation Disclosure Statement is filed under 37 CFR § 1.97(b):
		2a. 🗌 2b. 🗍	(Check either Item 2a or 2b or 2c or 2d) Within three months of the filing date of a national application; Within three months of the date of entry of the national stage as set forth in
		2c. 🗌	§ 1.491 in an international application. Before the mailing of a first Office Action on the merits; or

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3.	Continued Examination This Information Disclosure States specified in paragraph 2 above by Action under § 1.113, a Notice of closes prosecution in the applicat (Check either Item any reference key 3a. The § 1.97(e) Stateme 3b. The \$180.00 fee set for enclosed.	ment is filed under 37 CFR § 1.97(c) after the period at before the mailing date of any of a Final Office Allowance under § 1.311 or an action that otherwise on, AND 3a or 3b; Item 3b to be checked if nown for more than 3 months) and in Item 5 below is applicable; OR rth in 37 CFR § 1.17(p) is:
	 	Deposit Account No. 503333.
4.		ment is filed under 37 CFR § 1.97(d) after the period ut on or before payment of the Issue Fee, AND
		tt in Item 5 below is applicable; AND th in 37 CFR § 1.17(p) is:
	to be charged to	Deposit Account No. 503333.
5.	Statement under § 1.97(e) (applic	able if Item 3a or Item 4a is checked)
	(Check	either Item 5a or 5b)
	information contained in cited in any communication not Information Disclosure 5b. In accordance with 37 information contained in a communication from application and, to the making reasonable incommunication Disclosure	CFR § 1.97(e)(1), it is stated that each item of n this Information Disclosure Statement was first ation from a foreign patent office in a counterpart more than three months prior to the filing of this Statement. CFR § 1.97(e)(2), it is stated that no item of n this Information Disclosure Statement was cited in a foreign patent office in a counterpart foreign knowledge of the person signing the certification after uiry, no item of information contained in this Statement was known by any individual designated three months prior to the filing of this Information
6.	This is a continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisional/continuation/divisio	ontinuation-in-part application under 37 CFR §
	(Check appr	opriate Items 6a and/or 6b)
	were previously cited in which is relied on for a	ons listed on the attached Form PTO-1449 which prior application Serial No, filed on, and n earlier effective filing date for the subject .S.C. § 120, have been omitted pursuant to 37 CFR §

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	6b. 🗌	Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.
7.	☐ This is a	Request for Continued Examination under 37 CFR § 1.114. (Check either Item 7a or 7b)
	7a. ☐ 7b. ☐	The Issue Fee has not been paid. A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A Request for Continued Examination under 37 CFR § 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.114(a), respectively.
8.	☐ This is a	Supplemental Information Disclosure Statement.
		(Check either Item 8a or 8b)
	8a. 🗍	This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on
	8b. 🔲	This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §§ 1.97 and 1.98, mailed
9.		ince with 37 CFR § 1.98, a concise explanation of what is presently d to be the relevance of each non-English language publication is:
	. 5	(Check appropriate Items 9a, 9b, 9c and/or 9d)
	9a. ⊠	satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed., Rev. 2)
	9b. ∐ 9c. ⊠	set forth in the application. satisfied for the non-English language publication(s) indicated on the attached Form PTO-1449 as having an English language translation
	9d. 🗌	(Abstract Only) attached thereto. enclosed as Attachment 1(e), hereto.
10.	be, materia search repo	on is made that the information cited in this Statement is, or is considered to I to patentability nor a representation that a search has been made (other than ort(s) from a counterpart foreign application or a PCT International Search ubmitted herewith). 37 CFR §§ 1.97(g) and (h).

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11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 503333.

Respectfully submitted,

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Dated: _

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE

ATTORNEY DOCKET NO.

FIRST NAMED INVENTOR

Sheet 1 of 1 APPLICATION NO.

PATENT AND TRADEMARK OFFICE

1567.1015

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LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

Duck Chul HWANG et al.

FILING DATE

GROUP ART UNIT

July 24, 2001

1745

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	US 4,737,424	04/1988	Tobishima et al.			
	AB	US 5,626,981	05/1997	Simon et al.			
	AC	US 5,882,812	03/1999	Visco et al.			
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

:		DOCUMENT NO.	DATE	COUNTRY	TRANSLATION YES NO	ABSTRACT
	AG	EP 0 508 689	10/1992	EUROPE		
	АН	EP 0 749 173	12/1996	EUROPE		
	Al	JP 09-120837	05/1997	JAPAN		Х
	AJ	JP 2000-149987	05/2000	JAPAN		Х
	AK	WO 99/28987	06/1999	WIPO		
	AL					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	Report issued in European Patent Application No. 01117661.7- April 21, 2006.		

EVAMINED	DATE CONCIDENCE
EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered	whether or not citation is in conformance with MPEP 609. Draw line through

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.